

Next AMS Pilot Technology Verification Tests Scheduled

Four technology categories are undergoing verification tests in the Advanced Monitoring Systems (AMS) pilot of the U.S. Environmental Protection Agency's Environmental Technology Verification (ETV) program.

Portable NO/NO₂ Emission Analyzers. Draft NO/NO₂ verification reports are currently being reviewed by selected AMS stakeholders and U.S. EPA peer reviewers. The final test reports are expected to be completed in June and will be accessible on the ETV web site at <http://www.epa.gov/etv/library.htm>.

Ambient Air Fine Particulate Monitors.

Participating vendors, selected AMS stakeholders and EPA technical staff are to review the draft test/quality assurance (QA) plan during May and June. The verification testing is expected to be conducted in Pittsburgh, PA, during August and in Fresno, CA, in December. Each of these two testing phases is planned to take approximately one month.

On-line Turbidimeters.

The draft test/QA plan was sent in May to vendors, EPA technical and QA staff, and selected AMS pilot stakeholders.

Technologies of participating vendors will be tested at a drinking water treatment plant in Columbus, OH, during June and July. The verification report will be sent to reviewers this fall and the report is scheduled to be finalized by next February.

Open Path Optical Systems. Participants at the vendor meeting in March identified several questions to be resolved before the draft test/QA plan can be finalized, e.g., which types of open path optical systems can be accommodated in a single test/QA plan and what is the best location for the verification testing.

A draft test/QA plan will be discussed with interested vendors at a meeting during the 92nd A&W MA meeting in June (see below). The final plan is expected to be ready by July and the tests are to be scheduled this fall.

Six additional technology categories have been identified as priorities by the stakeholder committees: **Air** - mercury source monitors, in-stack fine particulate monitors; **Water** - pathogen detectors, portable instruments for drinking water, home test kits, and bacterial monitors.



ETV at A&WMA

An ETV panel discussion is scheduled at 10 a.m., June 21, at the A&WMA 92nd Annual Meeting & Exhibition, America's Center, St. Louis, MO. Co-chairs are Penny Hansen, director of EPA's ETV program, and Karen Riggs, Battelle's manager of the AMS pilot.

Panelists are Jeff Cook, California Air Resources Board; Tim Lawruk, Strategic Diagnostics, Inc.; and Scott Berger, Owens Corning Science and Technology Center. The preliminary program and schedule for the A&WMA Annual Meeting on June 20-24 can be found on the Web at <http://online.awma.org/techprog/>



The AMS pilot is one of 12 pilots in the U.S. Environmental Protection Agency's Environmental Technology Verification Program. ETV was established to accelerate the development and commercialization of improved environmental technologies through third-party verification testing and reporting of the technologies' performance. The ETV process provides purchasers and permittees with an independent assessment of the technology they are buying or permitting and facilitates multi-state acceptance. For further information, contact Helen Latham at Battelle, 505 King Ave., Columbus, Ohio 43201-2693; Phone 614-424-4062; Fax 614-424-5601; E-mail lathamh@battelle.org.

Meet the Stakeholder Committees

Two members of the AMS pilot's stakeholder committees are spotlighted in each issue of *The Monitor* – one each from the air and water committees.



Lee Ann Byrd
Air Stakeholder
Committee

Ms. Byrd has been an environmental engineer in the monitoring and quality assurance group of U.S. EPA's Office of Air Quality Planning and Standards (OAQPS) since January 1991. That office is in Research Triangle Park, NC. Her major responsibilities are regulatory adoption of advanced measurements (i.e., optical sensing systems) and, most recently, implementation of the fine particulate matter monitoring program.

An active member of several associations, she has chaired sessions at conferences of the Air and Waste Management Association (AWMA); led the EPA teams implementing methods of monitoring for ozone, fine particulates, and lead. Ms. Byrd also organized and chaired sessions on optical remote sensing and process monitoring at several other conferences.

She was named the Society of Professional Engineers' EPA "engineer of the year" in 1996 and received an EPA bronze medal for leading the agency's committee to develop a lead strategy. Ms. Byrd has a B.S. degree in electrical engineering from the West Virginia Institute of Technology and was previously employed in the engineering and planning department at Virginia Power Company.



Dennis Goldman
Water Stakeholder
Committee

Dr. Goldman is Science and Education Counsel to the National Ground Water Association, located in Columbus, Ohio. He has worked as a hydrogeologic consultant in the areas of water supply, solid waste, hazardous waste, mining, low-temperature geothermal, and remediation. He also has done research in multi-phase fluid flow, fracture flow, thermal well testing, and hard-rock borehole geophysics. Dr. Goldman has worked in mainland China on the hydrogeology of a coal mine. He has written articles on monitor well design and has experience in using all types of field monitoring devices.

A registered geologist in the states of Idaho, California, and Oregon, Dr. Goldman is also a certified geologist with the American Institute of Professional Geologists, a certified hydrogeologist with the American Institute of Hydrology, and a certified hydrogeologist in the state of California.

He received a B.S. in mathematics and an M.S. in computer science from the University of Illinois. His M.S. in hydrogeology and Ph.D. in geology are from the University of Idaho.

Visit the Advanced Monitoring Systems pilot on the Web at http://www.epa.gov/etv/07/07_main.htm.

Reciprocal Initiatives To Benefit EPA-ETV

The ETV program will share in the benefits of several national and international initiatives currently underway to combine verification testing efforts.

- A memorandum of understanding between EPA and the U.S. Department of Defense is being finalized that will provide for joint funding and conduct of verification testing of technologies of mutual benefit.
- The ETV program hosted a May workshop for representatives of the United Nations Environment Programme (UNEP) to discuss the issues, benefits, and limitations of a global technology assessment and verification process. UNEP plans to hold a series of consultative meetings in North America, Europe, and Asia to discuss the possibilities and mechanisms necessary to ensure quality data and environmental information.
- The Pacific Rim Enterprise Center and the Colorado Center for Environmental Management issued the *Catalog of Environmental Technology Verification Programs in North America* in January. The catalogue describes various ongoing verification programs and efforts at developing reciprocal programs. (Order your copy at <http://www.pacific-rim.org>.)

Upcoming Events

September 1999

23-24 – AMS pilot's Air Stakeholder Committee meeting, Duxbury, MA

October 1999

4-7 – Association of State Drinking Water Administrators, 14th Annual Conference, Hotel Royal Plaza, Lake Buena Vista, FL

20-21 – AMS pilot's Water Stakeholder Committee meeting, San Diego, CA

31 - November 3 – AWWA Water Quality Technology Conference, Tampa, FL